Ian Michael Gomez

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25 Harrington Street Bergenfield, NJ

Education

Stevens Institute of Technology *Sept. '17 - December '21*

B.S., Computer Science **GPA:** 3.92

M.S., Machine Learning **GPA:** 4.0

Honors: Edward A. Stevens Scholorship, Dean's List

Courses: Algorithms, Data Structures, Machine Learning, Natrual Langauge Processing, Information Retrieval and NLP, Deep Learning

Experience

Software Engineering Intern - Google *Jun '21 - Aug '21*

- Created an end to end machine learning pipeline to extract domain names.
- Created a data pipeline to process URL data for model training
- Trained a model that has a BLEU-4 score of .93 and an accuracy of .65 when accounting for STT errors.

Full Stack Software Developer Intern - IBM *Jun '19 - Aug '19*

Ant, Gradle, Python, Java

- Add resilience features which reduce build pipeline failures by 4%
- Aid in open sourcing 20 packages of Open Liberty
- Add automation tools by writing Python/Gradle scripts to reduce developer conversion time by 17%

Course Assistant - Stevens Institute of Technology *Jan '19 - Dec '20*

Scheme, C++, C, OCaml, Python

- Assissted for Discrete Structures/Algorithms/Systems Programming
- Provide aid in grading over 100 students' assignments
- Hold office hours where I help students with both theoretical and programming problems
- Run lab sections where I teach problem solving methods and programming concepts
- Build test scripts to help validate student homework solutions

Programming Projects

DABNet (Personal Project) *Jun '19 - Jan '20*

PyTorch, OpenCV, Python, NumPy

- Created a reinforcement learning algorithm to learn how to play Dota Underlords
- Use **OpenCV** for image processing and **PyTorch** to build convolutional neural networks for image classification and object detection
- Able to have a 5 round win streak against random human players in a lobby

Cryptocurrency Predictor (Personal Project) *Feb '18 - Jun '18*

BeautifulSoup4, Tensorflow, Python

- Create a machine learning pipeline to predict cryptocurrency prices using on information on coinmarketcap
- Create a neural network which has a .002 mean square cross validation error on the Loki cryptocurrency

Programming Skills

Experienced With: Python, Linux, HTML, CSS, JavaScript, C **Familiar with** C++, Java, SQL

Machine Learning: NumPy, PyTorch, Tensorflow, Keras, SciKit-Learn, Matplotlib

Full Stack Web Development: Flask, Django, React, Express

Database Technologies: PostgreSQL, MongoDB, SQLite3

Recognition

Won Best Usage of Twilio API at HackTCNJ 2018 - For the project Panic Button

President of the Stevens Chapter of International Computer and Information Honor Society (UPE)